



802.11g Wireless Broadband Router

Model # AR335W

User's Manual

Ver. 1A

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# 1. Introduction

Congratulations on your purchase of this 802.11g Wireless Broadband Router. This product is specifically designed for Small Office and Home Office needs. It provides a complete SOHO solution for Internet surfing and is easy to configure and operate even for non-technical users. Instructions for installing and configuring this product can be found in this manual. Before you install and use this product, please read this manual carefully for proper operation of this product.

## Basic Functions

- **Compliant to IEEE 802.11g and 802.11b**  
Supports up to 54Mbps\* data rate
- **NAT Routing**  
Connects multiple computers with wire or wirelessly to a broadband (cable or DSL) modem to surf the Internet.
- **Auto-Sensing Ethernet Switch**  
Equipped with a 4-port auto-sensing Ethernet switch.
- **Firewall**  
All unwanted packets from outside intruders are blocked to protect your Intranet.
- **DHCP Server Supported**  
All of the networked computers can retrieve TCP/IP settings automatically from this product.
- **Web-Based Configuration**  
Configurable through any networked computer's web browser using Netscape or Internet Explorer.

## Security Functions

- **VPN Pass-Through**  
Support VPN pass-through.
- **SPI Mode Supported**  
When SPI Mode is enabled, the router will check every incoming packet to determine if the packet is valid.
- **Wireless Security**  
WEP, WPA, WPA2, and Wireless MAC Filter

## Advanced Functions

- **Multiple administrators**
- **Detailed logging**
- **UPNP (Universal Plug-and-Play) Supported**
- **WMM**
- **DDNS**

## 2. Connecting the Router

**Note:** Prior to connecting the router, be sure to power off your computer, DSL/Cable modem, and the router. You should setup the router with a wired connection first before attempting to setup any wireless connection.

**Step 1** Connect one end of a network cable to the **WAN** port of the router and connect the other end of the cable to the DSL/Cable modem.

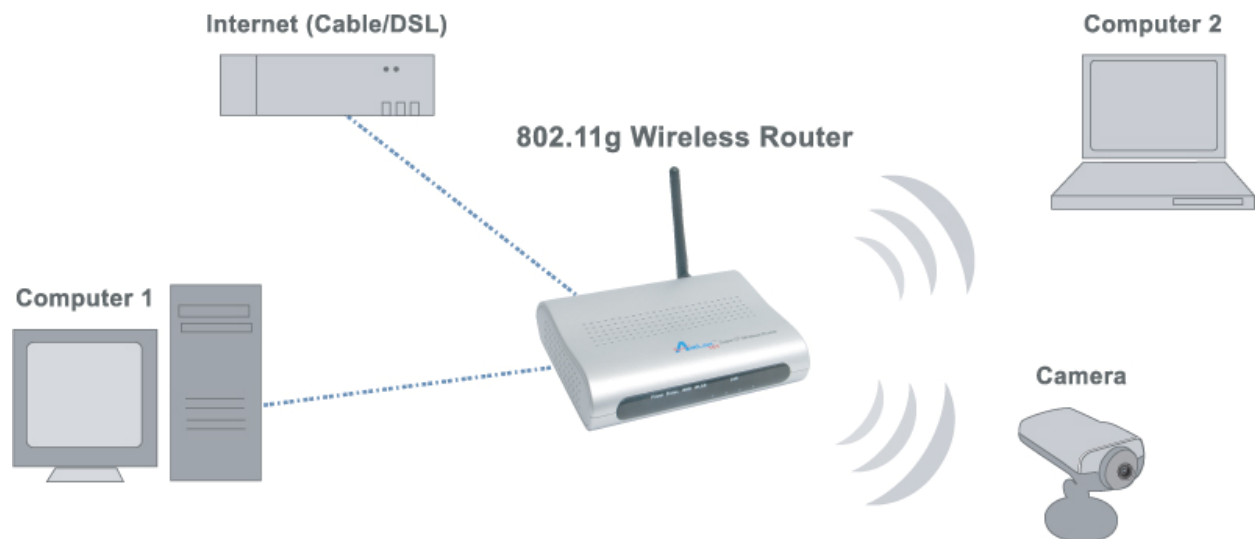
**Step 2** With another network cable, connect one end of the cable to your computer's network card and connect the other end to one of the **LAN (Ethernet)** ports of the router.

**Step 3** Power on the DSL/Cable modem and wait for the lights on the modem to settle down.

**Step 4** Power on the router by connecting one end of the supplied power adapter to the power jack of the router and connecting the other end to an electrical outlet.

**Step 5** Power on your computer.

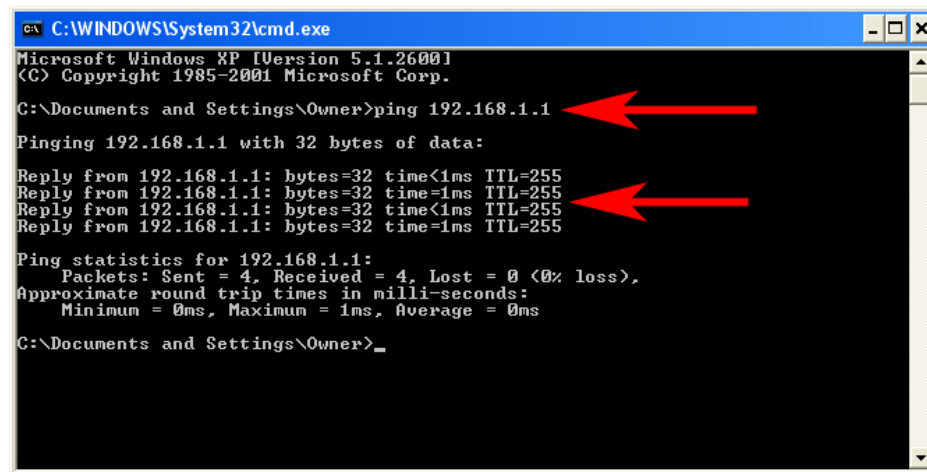
**Step 6** Make sure the **WAN**, **WLAN**, and the **LAN** port that the computer is connected to are lit. If not, try the above steps again.



### 3. Verifying Connection to the Router

**Step 1** Go to **Start, Run**, type **command** (for Windows 95/98/ME) or **cmd** (for Windows 2000/XP) and click **OK**. You will see the command prompt as below.

**Step 2** Type **ping 192.168.1.1** and press **Enter**. You should get four reply responses back.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

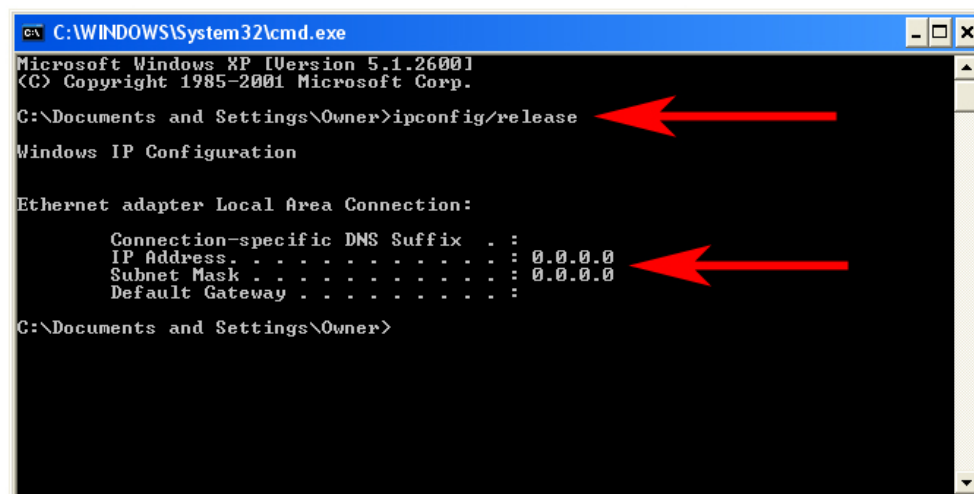
C:\Documents and Settings\Owner>ping 192.168.1.1
Pinging 192.168.1.1 with 32 bytes of data:
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time=1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\Documents and Settings\Owner>_
```

**Step 3** If you get **Request timed out**, or **Destination host unreachable**, double-check the network cable connection between the computer and the router and try **Step 2** again. If you still encounter problem, go to the next step; otherwise proceed to **Section 4, Configuring the Router**.

**Step 4** For Windows 2000/XP, type **ipconfig/release** and press **Enter**.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

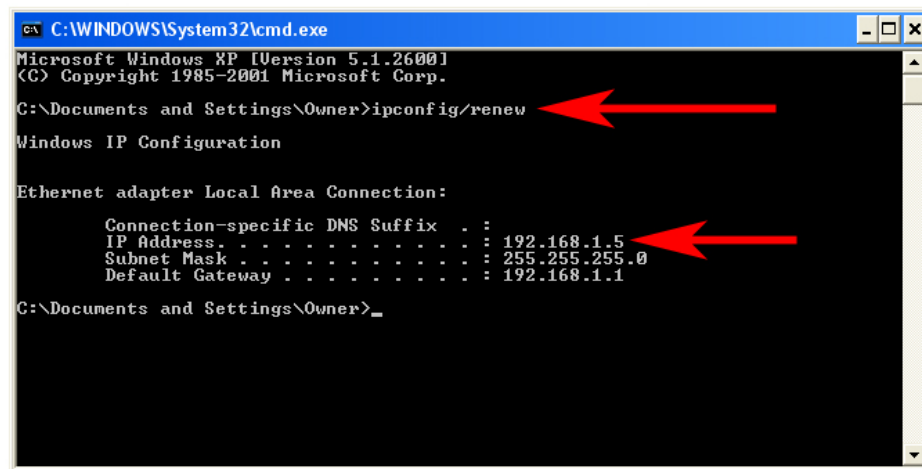
C:\Documents and Settings\Owner>ipconfig/release
Windows IP Configuration

Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix . : 
    IP Address. . . . . : 0.0.0.0
    Subnet Mask . . . . . : 0.0.0.0
    Default Gateway . . . . . : 

C:\Documents and Settings\Owner>
```

**Step 5** Type **ipconfig/renew** and press **Enter**. You should get an IP address of **192.168.1.x** (where **x** is a number between 2 - 254). Proceed to **Section 4, Configure the Router**. If you don't get an IP address, reset the router by holding in the reset button on the back of the router for 10 seconds while it is ON and try **ipconfig/renew** again.



```
C:\WINDOWS\System32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Owner>ipconfig/renew

Windows IP Configuration

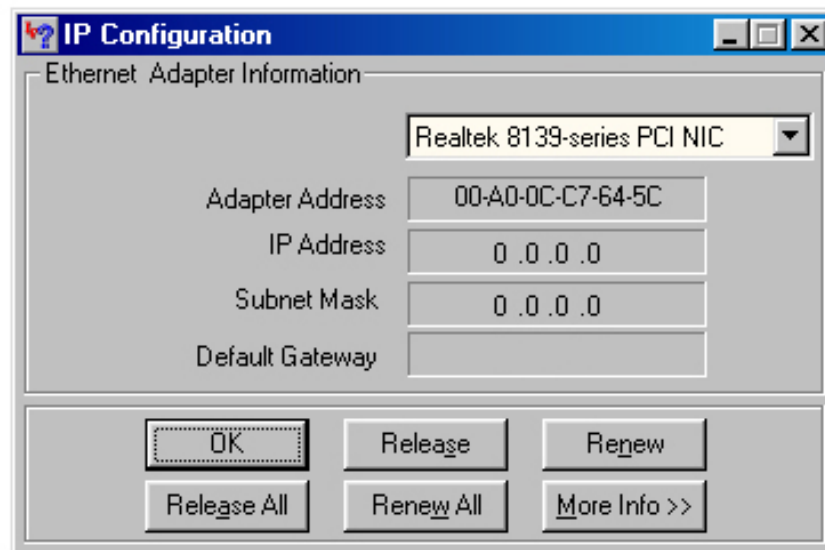
Ethernet adapter Local Area Connection:

    Connection-specific DNS Suffix  . : 
    IP Address . . . . . : 192.168.1.5
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.1.1

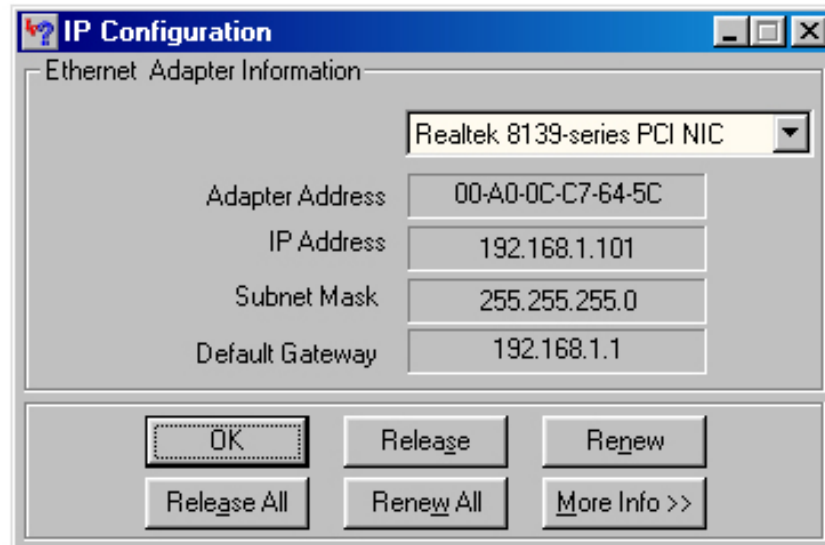
C:\Documents and Settings\Owner>
```

**Step 6** For Windows 95/98/ME go to **Start, Run**, type **winipcfg** and click **OK**.

**Step 7** Select your network card from the drop-down menu and click **Release**.



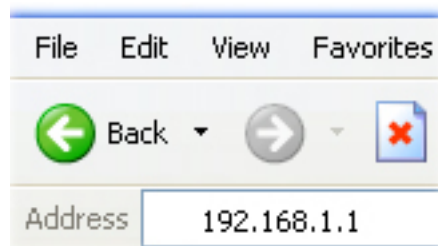
**Step 8** After your IP address is released, click **Renew**. You should get an IP address of **192.168.1.x** (where **x** is a number between 2 - 254). If you don't get an IP address, reset the router by holding in the reset button on the back of the router for 10 seconds while it is ON and try **Renew** again.






## 4. Configuring the Router

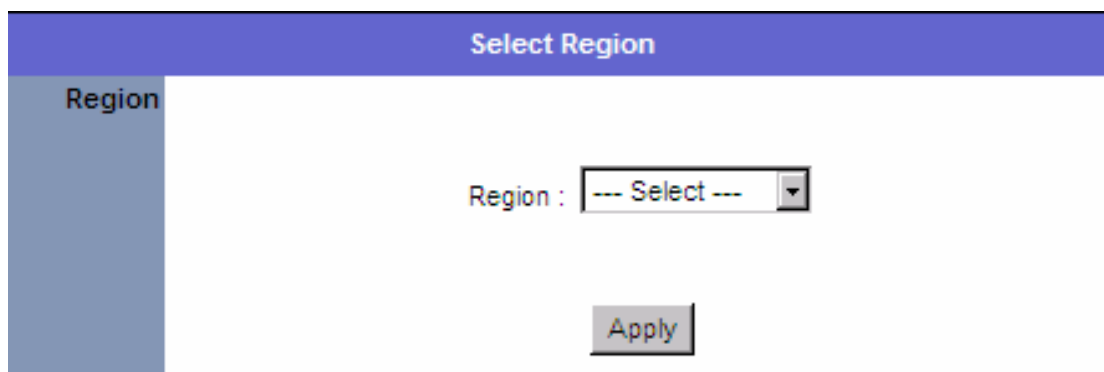
**Step 1** Open the web browser and type **192.168.1.1** in the URL Address field and press **Enter**.



**Step 2** Enter **admin** for both the username and password fields and click **Login**.

A screenshot of the login page for a 'Standard 11G Wireless Router'. The page has a blue header with the title 'Standard 11G Wireless Router'. On the left is a blue sidebar with the word 'Login'. The main content area has a 'User Name:' label followed by a text box containing 'admin'. Below that is a 'Password:' label followed by a text box with five dots. At the bottom is a 'Login' button.

**Step 3** Select the proper region, **North America** or **South America**, and click **Apply**.

A screenshot of the 'Select Region' page. The page has a blue header with the title 'Select Region'. On the left is a blue sidebar with the word 'Region'. The main content area has a 'Region:' label followed by a dropdown menu showing '--- Select ---'. At the bottom is an 'Apply' button.

**Warning:** This device requires that the user or installer properly selects the current region of operation before using this device. This device will automatically limit the allowable channels determined by the current region of operation.

**Incorrectly selecting the current region of operation may result in illegal operation and may cause harmful interference to other systems.** The user is obligated to ensure the device is operating according to the channel limitations, indoor/outdoor restrictions and license requirements for the current country of operation.

## Cable Modem

For most cable modem users, you should be able to connect to the Internet without any configuration. If your ISP has provided you with a host name, enter it in the optional **Host Name** field.

If your ISP requires a registered MAC Address, click on the **Clone MAC Address** button. Click **Apply** and **OK** to save the settings.

The screenshot shows the 'Internet Setup' page of the AIRLINK 101 router. The 'Internet Connection Type' is set to 'Dynamic IP (DHCP)'. The 'Host Name' field is highlighted with a red box and contains the text 'ar335w'. Below it, the 'MAC Address' field is empty, and the 'Clone MAC Address' button is highlighted with a red box. The 'Primary DNS Address' and 'Secondary DNS Address' fields are empty. The 'MTU' field is set to '1500'. The 'Apply' and 'Cancel' buttons are at the bottom.

If you have trouble connecting to the Internet, please refer to the **Troubleshooting** section at the end of this guide.

## DSL

For DSL users, follow the steps below to configure the router.

**Step 1** Select **PPPoE** from the drop-down menu.

**AIRLINK 101**  
networkingsolutions

Setup | Wireless | Security | Access Restrictions | Application & Gaming | Administration | Status

Internet Setup | Network Setup | DDNS | Time Settings

Internet Setup  
Internet Connection Type

Dynamic IP (DHCP) [v]  
Static IP  
Dynamic IP (DHCP)  
**PPPoE (Username / Password)**  
PPTP (Username / Password)  
L2TP (Username / Password)  
BigPond (Australia)

Secondary DNS Address : [ ] (optional)  
MTU : [ 1500 ]

Apply Cancel

**Step 2** Enter your username and password provided by your ISP.

**AIRLINK 101**  
networkingsolutions

Setup | Wireless | Security | Access Restrictions | Application & Gaming | Administration | Status

Internet Setup | Network Setup | DDNS | Time Settings

Internet Setup  
Internet Connection Type

PPPoE (Username / Password) [v]

☒ Dynamic PPPoE ☐ Static PPPoE

User Name : [ username@sbcglobal.net ]  
Password : [ ..... ]  
Retype Password : [ ..... ]

Service Name : [ ] (optional)  
IP Address : [ ]  
MAC Address : [ ] : [ ] : [ ] : [ ] : [ ] : [ ]  
(optional) Clone MAC Address  
Primary DNS Address : [ ]  
Secondary DNS Address : [ ] (optional)  
Maximum Idle Time : [ 0 ] Minutes  
MTU : [ 1492 ]  
Connect mode select : ☒ Always-on ☐ Manual ☐ Connect-on demand

Apply Cancel

**Note:** Depending on the ISP, you may need to include the domain name with your username.

**Example:**      **username@sbcglobal.net**

**Step 3** Click **Apply** and **OK** to save the settings.

If you have trouble connecting to the Internet, please refer to the **Troubleshooting** section at the end of this manual.

## 5. Connecting to the Router Wirelessly

Below are the default wireless settings of the router. You must configure your wireless network card to the same settings in order to establish a wireless connection to the router. Please refer to your wireless network card's manual on how to configure these settings.

SSID: **default**

Operating Mode: **Infrastructure**

Authentication: **Open System**

Channel #: **6**

WEP: **disabled**

If you want to change the router's wireless settings, log in to the router and select the **Wireless** tab. Be sure to click **Apply** and **OK** to save the settings.



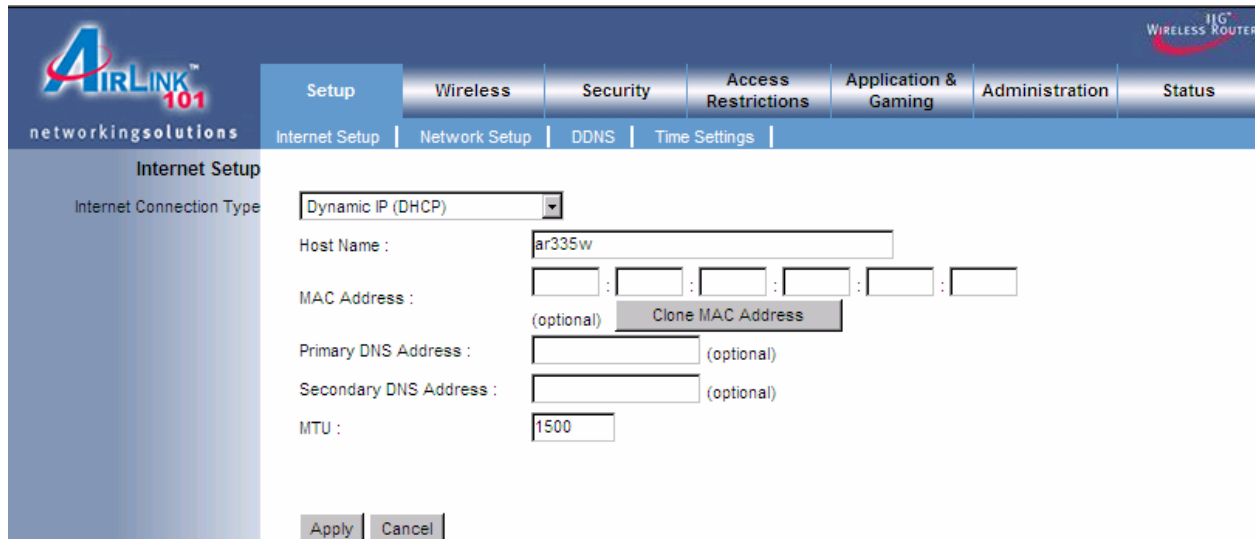
The screenshot displays the web management interface for an AIRLINK 101 wireless router. The top navigation bar includes tabs for Setup, **Wireless** (highlighted with a red box), Security, Access Restrictions, Application & Gaming, Administration, and Status. Below this, a sub-menu shows Basic Wireless Settings, Wireless Security, Wireless MAC Filter, and Advanced Wireless Settings. The main content area is titled 'Wireless Network' and 'Wireless-G Settings'. It contains the following configuration fields: Mode (set to 'Mixed(g/b)'), Network Name (SSID) (set to 'default'), Channel (set to '6-2.437GHz'), and SSID Broadcast (set to 'Enable'). At the bottom of the settings area are 'Apply' and 'Cancel' buttons.

## 6. Web Configuration Utility

This router has a built-in web configuration utility that you can use to configure the router's settings. Simply log in to the router using your computer's web browser.

### 6.1 Setup

#### 6.1.1 Internet Setup



The screenshot displays the web configuration utility for an AirLink 101 wireless router. The interface features a top navigation bar with tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. Below this, a sub-navigation bar highlights Internet Setup, Network Setup, DDNS, and Time Settings. The main content area is titled 'Internet Setup' and shows the 'Internet Connection Type' set to 'Dynamic IP (DHCP)'. Fields for Host Name (ar335w), MAC Address (with a 'Clone MAC Address' button), Primary DNS Address, Secondary DNS Address, and MTU (1500) are visible. 'Apply' and 'Cancel' buttons are at the bottom.

This is the default screen when you log in to the router's web configuration utility. You can setup your Internet connection here.

## 6.1.2 Network Setup

Network Setup allows manually configuring TCP/IP and DHCP settings.

The screenshot shows the AIRLINK 101 Network Setup page. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. Below this is a sub-navigation bar with tabs for Internet Setup, Network Setup, DDNS, and Time Settings. The main content area is titled 'Network Setup' and contains three sections: 'Router IP', 'DHCP Server Settings', and 'Static DHCP Settings'. The 'Router IP' section has fields for IP Address (192.168.1.1), Subnet Mask (255.255.255.0), Local Domain Name (optional), and Enable DNS Relay (Enabled). The 'DHCP Server Settings' section has a DHCP Server dropdown (Enabled), Starting IP Address (192.168.1.100), Ending IP Address (192.168.1.199), and Lease Time (10080 minutes). The 'Static DHCP Settings' section is highlighted with a red box and contains a DHCP Entries dropdown (1), an Enable dropdown (Disabled), a Name field with a Computer Name dropdown, an IP Address field (192.168.1.), and a MAC Address field. There are buttons for 'Delete This Entry', 'Static DHCP List', and 'Copy Your PC's MAC Address'. At the bottom are 'Apply' and 'Cancel' buttons.

### Assigning Static DHCP Settings

**Step 1** Select **Enabled** in the DHCP Server drop-down menu

**Step 2** Select a computer name from the drop-down menu or enter a name associated with this Static IP Address

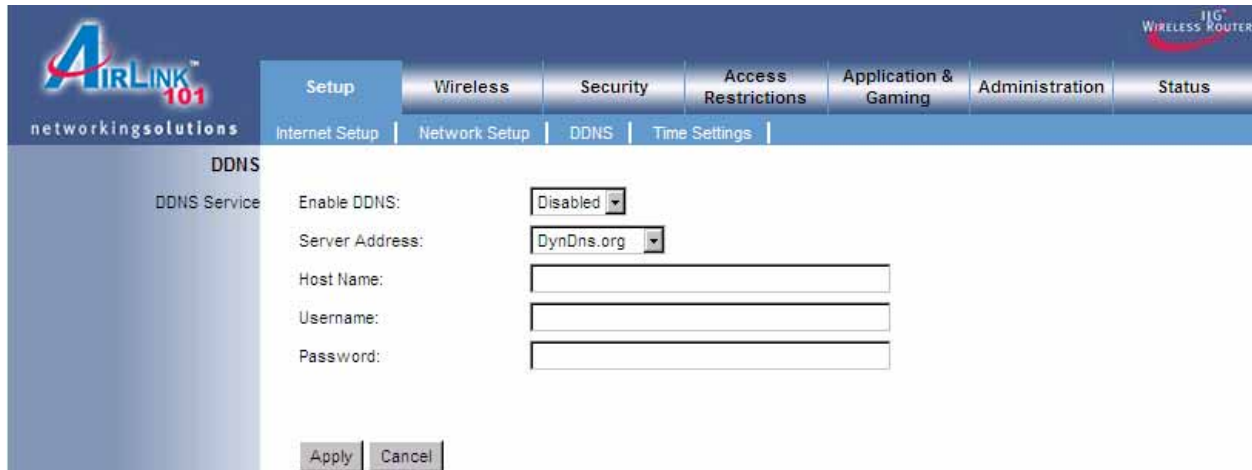
**Step 3** Enter the Static IP Address in the **IP Address** field

**Step 4** Enter the MAC address of the corresponding computer in the **MAC Address** field

Remember to click **Apply** and **OK** to save your changes.

### 6.1.3 DDNS

Dynamic DNS (DDNS) allows any user who wishes to access your server to reach it by a registered DNS name instead of an IP address. Before you enable **DDNS**, you need to register an account with one of the DDNS providers listed in the drop-down menu.



The screenshot shows the configuration interface for the AIRLINK 101 wireless router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The 'Setup' tab is active, and the 'DDNS' sub-tab is selected. The main content area is titled 'DDNS' and contains a 'DDNS Service' section. This section includes a form with the following fields: 'Enable DDNS' (a dropdown menu currently set to 'Disabled'), 'Server Address' (a dropdown menu currently set to 'DynDns.org'), 'Host Name' (a text input field), 'Username' (a text input field), and 'Password' (a text input field). At the bottom of the form are 'Apply' and 'Cancel' buttons.

To Enable DDNS, select the DDNS provider you have registered with and enter the required fields. Click **Apply** and **OK** to save the setting.

## 6.1.4 Time Settings

Time Settings allow you to configure the router clock.

The screenshot shows the 'Time Settings' page of the AirLink 101 router's web interface. The page has a blue header with the 'AIRLINK 101' logo and 'networkingsolutions' text. A navigation bar at the top includes tabs for 'Setup', 'Wireless', 'Security', 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. Below this, a sub-navigation bar highlights 'Internet Setup', 'Network Setup', 'DDNS', and 'Time Settings'. The 'Time Settings' section on the left lists: 'Device Time' (showing 'Jan 01, 2000 00:07:09'), 'Synchronize the device's clock' (with radio buttons for 'Automatic (Simple Network Time Protocol)', 'Your computer's clock', and 'Manual (Enter your own settings)'), 'Time Zone' (a dropdown menu showing '(GMT-08:00) Pacific Time (US & Canada); Tijuana'), 'Daylight Saving' (an unchecked checkbox), 'Get the time automatically via Network Time Protocol(NTP)' (with fields for 'NTP Server:' containing 'clock.isc.org' and 'Interval:' set to '24 hrs'), and 'Time' (a series of dropdown menus for Year, Month, Day, Hour, Minute, and Second, currently showing 2005, 01, 01, 00, 07, and 09 respectively). At the bottom are 'Apply' and 'Cancel' buttons.

Click **Apply** and **OK** to save the settings.



## 6.2. Wireless

### 6.2.1 Basic Wireless Settings

You can configure the router's basic wireless settings on this screen.

The screenshot shows the configuration interface for an Airlink 101 Wireless Router. The top navigation bar includes tabs for Setup, Wireless (highlighted with a red box), Security, Access Restrictions, Application & Gaming, Administration, and Status. Below this, a sub-navigation bar shows Basic Wireless Settings, Wireless Security, Wireless MAC Filter, and Advanced Wireless Settings. The left sidebar lists 'Wireless Network' and 'Wireless-G Settings'. The main content area displays the 'Basic Wireless Settings' form with the following fields: 'Mode' (dropdown menu set to 'Mixed(g/b)'), 'Network Name (SSID):' (text field containing 'default'), 'Channel' (dropdown menu set to '6-2.437GHz'), and 'SSID Broadcast' (dropdown menu set to 'Enable'). At the bottom of the form are 'Apply' and 'Cancel' buttons.

**Mode:** Choose from Mixed (g/b), Wireless-11g Only, Wireless 11b Only, or Disabled to stop wireless function.

**Network Name (SSID):** You can change the router's SSID in this field. Once you have changed the SSID, your network clients need to re-connect themselves using the new SSID.

**Channel:** Select the desired channel. All the network clients need to be using the same channel.

**SSID Broadcast:** Choose to enable or disable the broadcasting of your SSID.

## 6.2.2 Wireless Security

You can configure wireless security such as WEP or WPA encryption on this screen.

**Note:** It is recommended that you use WPA-PSK or WPA2-PSK encryption over WEP if your wireless clients support it. All of the wireless clients must use the same security settings in order to connect to the router.

### WEP

To enable WEP, select **WEP** from the **Security Mode**.

The screenshot shows the configuration interface for the AIRLINK 101 Wireless Router. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Security Mode' is set to 'WEP'. The 'Authentication Type' is 'Open System', 'Encrypt Length' is '64Bits', and 'Key Type' is 'HEX'. There are four input fields for WEP Keys 1 through 4, and a 'Default Key' dropdown set to '1'. Below these, there is a section for 'Wi-Fi Protected Setup' with an 'Enable' checkbox checked, a 'Current PIN' of '40892506', and buttons for 'Generate New PIN' and 'Reset PIN to Default'. The 'Wi-Fi Protected Status' is 'Enabled / Not Configured', with buttons for 'Reset to Unconfigured' and 'Add Wireless Device Wizard'. At the bottom are 'Apply' and 'Cancel' buttons.

**Authentication Type:** Choose Open System or Shared Key.

**Encryption:** Choose from **64 bits** or **128 bits**

**Key Type:** Choose HEX or ASCII

**WEP Key 1 – 4:** Manually assign a password for each key. If you selected **64 bits** encryption, enter **10** HEX characters (0-F) for each key. If you selected **128 bits** encryption, enter **26** HEX characters (0-F) for each key.

**Note:** HEX number is a number from 0 to 9 and a letter from A to F. ASCII is any number or letter.

**Default Key:** Select a key to be the active key.

Click **Apply** and **OK** to save the settings.

## WPA-PSK/WP2-PSK

To enable WPA, select **WPA-PSK** or **WPA2-PSK** from the **Security Mode**.

The screenshot shows the configuration interface for an AIRLINK 101 wireless router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The main content area is divided into two sections: 'Wireless Network' and 'Wi-Fi Protected Setup'. In the 'Wireless Network' section, the 'Security Mode' is set to 'WPA-PSK', 'Encryption Methods' is 'TKIP', 'Passphrase Format' is 'ASCII', and 'Key Renewal' is set to '1500' seconds. The 'Wi-Fi Protected Setup' section shows 'Enable' checked, 'Current PIN' as '40892506', and 'Wi-Fi Protected Status' as 'Enabled / Not Configured'. There are buttons for 'Generate New PIN', 'Reset PIN to Default', 'Reset to Unconfigured', and 'Add Wireless Device Wizard'. At the bottom, there are 'Apply' and 'Cancel' buttons.

**Encryption Methods:** Select either **TKIP** or **AES** as the encryption method.

**Passphrase:** Enter a passphrase between 8 to 63 characters long.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Apply** and **OK** to save the settings.

## WPA with RADIUS

If you are using a RADIUS server in your network for authentication, you may choose **WPA** or **WPA2** from the **Security Mode**.

The screenshot shows the configuration interface for an AirLink 101 Wireless Router. The 'Wireless' tab is selected, and the 'Wireless Security' sub-tab is active. The 'Security Mode' is set to 'WPA'. The 'Encryption Methods' are set to 'TKIP'. The 'RADIUS Server' field is empty, and the 'RADIUS Port' is set to '1812'. The 'Shared Key' field is empty, and the 'Key Renewal' is set to '1500' seconds. The 'Wi-Fi Protected Setup' section is also visible, with 'Enable' checked and 'Current PIN' set to '40892506'. There are buttons for 'Generate New PIN', 'Reset PIN to Default', 'Reset to Unconfigured', and 'Add Wireless Device Wizard'. At the bottom, there are 'Apply' and 'Cancel' buttons.

Setup	Wireless	Security	Access Restrictions	Application & Gaming	Administration	Status
Basic Wireless Settings   Wireless Security   Wireless MAC Filter   Advanced Wireless Settings						

**Wireless Network**  
Wireless-G Settings

Security Mode: **WPA**

Encryption Methods: **TKIP**

RADIUS Server: [ ] . [ ] . [ ] . [ ]

RADIUS Port: **1812**

Shared Key: [ ]

Key Renewal: **1500** Seconds

---

Wi-Fi Protected Setup

Enable: ☒

Current PIN: **40892506**

**Generate New PIN** **Reset PIN to Default**

Wi-Fi Protected Status: **Enabled / Not Configured**

**Reset to Unconfigured** **Add Wireless Device Wizard**

**Apply** **Cancel**

**Encryption Methods:** Select either **TKIP** or **AES** as the encryption method.

**RADIUS Server:** Enter the IP Address of your RADIUS server.

**RADIUS Port:** Enter the port number of your RADIUS server.

**Shared Key:** Enter the shared key.

**Key Renewal:** Enter the desired key renewal time in seconds.

Click **Apply** and **OK** to save the settings.

## WiFi Protected Setup

This is an easier way to setup the wireless security for all your wireless clients. This security feature only works when your wireless adapter supports this WPS PIN feature. You will have to enter the **Current PIN** at your wireless client side to connect to this router.

Check/Uncheck the **Enable** box to enable or disable this function

### 6.2.3 Wireless MAC Filter

You can restrict certain wireless clients from accessing the router by specifying their MAC address and enabling access restriction.

The screenshot displays the configuration interface for the AIRLINK 101 router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The 'Wireless' tab is selected, and the 'Wireless MAC Filter' sub-tab is active. The main content area shows the 'Wireless MAC Filter' section with an 'Access Restrictions' dropdown menu set to 'Disabled'. Below this is a 'Wireless Client List' table with 20 rows, each containing a MAC address field (MAC 01 to MAC 20) and a corresponding input field. At the bottom are 'Apply' and 'Cancel' buttons.

Wireless Client List	
MAC 01:	
MAC 02:	
MAC 03:	
MAC 04:	
MAC 05:	
MAC 06:	
MAC 07:	
MAC 08:	
MAC 09:	
MAC 10:	
MAC 11:	
MAC 12:	
MAC 13:	
MAC 14:	
MAC 15:	
MAC 16:	
MAC 17:	
MAC 18:	
MAC 19:	
MAC 20:	

Select **Enabled** from the drop-down menu and choose whether the specified wireless clients will be prevented or permitted to access the wireless network. Enter their MAC address in the fields below and click **Apply** and **OK** to save the settings.

## 6.2.4 Advanced Wireless Settings

You can configure various advanced wireless settings on this screen.

Advanced Wireless Settings

Transmission Rate:

Transmission Power:

CTS Protection Mode:

Beacon Interval:  (Default: 100 Milliseconds, Range: 0 ~ 2346)

DTIM Interval:  (Default: 1, Range: 1 ~ 255)

Fragmentation Threshold:  (Default: 2346, Range: 256 ~ 2346, even)

RTS Threshold:  (Default: 2346, Range: 0 ~ 2346)

WMM function:

**Transmission Rate:** Select from Auto, 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48 and 54 Mbps.

**Transmission Power:** Select from full, half, quarter, eighth, min.

**CTS Protection Mode:** Select from disable, enable, auto.

**Beacon Interval:** Enter a value from the valid range of 0 to 2346. The default value is 100 Milliseconds

**DTIM Interval:** Enter a value from the valid range of 0 to 255. The default value is 1.

**Fragmentation Threshold:** Enter an even number from 256 to 2346. The default value is 2346.

**RTS Threshold:** Enter a value from the valid range of 0 to 2346. The default value is 2346.


**WMM Function:** WMM keeps the priority of audio, video and voice applications in a Wi-Fi network so that other applications or network traffic (i.e. downloading large files) are less likely to cause delay to them.

Select disable or enable the WMM function.

Click **Apply** and **OK** to save the settings.

## 6.3 Security

### 6.3.1 Firewall



The screenshot shows the 'Firewall' configuration page in the AirLink 101 web interface. The top navigation bar includes 'Setup', 'Wireless', 'Security' (selected), 'Access Restrictions', 'Application & Gaming', 'Administration', and 'Status'. Below this, the 'Firewall' sub-tab is active. The page title is 'Firewall'. The configuration options are: 'Block WAN Ping' set to 'Disabled' and 'SPI mode' set to 'Enabled'. At the bottom are 'Apply' and 'Cancel' buttons.

**Block WAN Ping:** Enable or Disable.

**SPI Mode:** Select to enable or disable Stateful Packet Inspection.

Click **Apply** and **OK** to save the settings.

### 6.3.2 VPN Passthrough

You can select to enable or disable the passthrough of **IPSec**, **L2TP**, and/or **PPTP**.



The screenshot shows the 'VPN Passthrough' configuration page in the AirLink 101 web interface. The top navigation bar is the same as the previous page, with 'Security' selected. The 'VPN Passthrough' sub-tab is active. The page title is 'VPN Passthrough'. The configuration options are: 'IPSec Passthrough' set to 'Enabled', 'L2TP Passthrough' set to 'Disabled', and 'PPTP Passthrough' set to 'Enabled'. At the bottom are 'Apply' and 'Cancel' buttons.

Click **Apply** and **OK** to save the settings.

## 6.4 Access Restrictions

You can setup policies that deny or allow specific clients to access the Internet based on IP address, MAC address, URL, Domain or a specified time.

### 6.4.1 IP Filters

Set up router filter policies based on IP addresses.

The screenshot shows the web interface of an AirLink 101 wireless router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions (selected), Application & Gaming, Administration, and Status. Under the Access Restrictions tab, there are sub-tabs for IP Filters, MAC Filters, URL Blocking, Domain Blocking, and Schedule. The IP Filters sub-tab is active, showing a list of rules. A single rule is displayed with the following settings: Description (empty text box), Status (Disabled dropdown), IP Address (empty text box with a range separator), Protocol (ALL dropdown), Port (empty text box with a range separator), and Schedule (Always dropdown). There are buttons for 'Delete This Rule', 'Summary', 'Apply', and 'Cancel'.

**Description:** Enter a name for the policy.

**Status:** Choose to enable or disable the selected policy.

**IP Addresses:** Specify client by a range of IP addresses

**Protocol:** Select protocol from All, TCP, UDP or ICMP

**Port:** Enter a range of ports.

**Schedule:** Enter a schedule time

To view all the policies, click the **Summary** button.



## 6.4.2 MAC Filters

Setup policies that deny or allow specific clients to access the Internet based on MAC addresses.

The screenshot shows the AIRLINK 101 network management interface. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions (selected), Application & Gaming, Administration, and Status. Below this, a sub-navigation bar shows IP Filters, MAC Filters (selected), URL Blocking, Domain Blocking, and Schedule. The main content area is titled 'MAC Filters' and features a dropdown menu set to 'Disabled'. Below this is a table with one row showing 'MAC Filter Rule: 1 (---)' with buttons for 'Delete This Rule' and 'Summary'. The form includes fields for 'Enter Description Name:', 'MAC Address:' (with six input boxes separated by colons), 'DHCP Client:' (a dropdown menu set to '--Select Client--' and a 'Clone' button), and 'Schedule:' (a dropdown menu set to 'Always' and an 'Add New' button). At the bottom are 'Apply' and 'Cancel' buttons.

**Enter Description Name:** Enter a name for the policy.

**MAC Address:** Enter a MAC address

**DHCP Client:** Select DHCP client on your network.

To view all the policies, click the **Summary** button.

### 6.4.3 URL Blocking

You can block the specified clients from accessing certain websites by URL

Enter the URL or the Keyword you wish to block.

Click **Apply** and **OK** to save the settings.

The screenshot displays the AIRLINK 101 web interface. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions (selected), Application & Gaming, Administration, and Status. Below this, a sub-menu shows IP Filters, MAC Filters, URL Blocking (selected), Domain Blocking, and Schedule. The main content area is titled 'URL Blocking' and 'Website Blocking by URL Address'. It features a 'Configure URL Blocking below:' section with a dropdown menu set to 'Disabled'. Below this are ten rows, each with a label (URL 01 to URL 10), a text input field, a dropdown menu set to 'Always', and an 'Add New' button. At the bottom, there are 'Apply' and 'Cancel' buttons.

URL	Input Field	Dropdown	Action
URL 01 :	<input type="text"/>	Always	Add New
URL 02 :	<input type="text"/>	Always	Add New
URL 03 :	<input type="text"/>	Always	Add New
URL 04 :	<input type="text"/>	Always	Add New
URL 05 :	<input type="text"/>	Always	Add New
URL 06 :	<input type="text"/>	Always	Add New
URL 07 :	<input type="text"/>	Always	Add New
URL 08 :	<input type="text"/>	Always	Add New
URL 09 :	<input type="text"/>	Always	Add New
URL 10 :	<input type="text"/>	Always	Add New

Apply Cancel

## 6.4.4 Domain Blocking

Specify the domains to deny or allow internet access.

The screenshot shows the 'Domain Blocking' configuration page in the AirLink 101 web interface. The page has a blue header with the 'AIRLINK 101' logo and 'networkingsolutions' text. A navigation bar includes tabs for 'Setup', 'Wireless', 'Security', 'Access Restrictions' (selected), 'Application & Gaming', 'Administration', and 'Status'. Below the navigation bar, a sub-menu shows 'IP Filters', 'MAC Filters', 'URL Blocking', 'Domain Blocking' (selected), and 'Schedule'. The main content area is titled 'Domain Blocking' and contains the following elements:

- A dropdown menu labeled 'Configure Domain Blocking below:' with 'Disabled' selected.
- A list of 10 domain entries, each with a text input field, a dropdown menu set to 'Always', and an 'Add New' button.
- At the bottom, 'Apply' and 'Cancel' buttons.

Domain	Action	Add New
Domain 01:	Always	Add New
Domain 02:	Always	Add New
Domain 03:	Always	Add New
Domain 04:	Always	Add New
Domain 05:	Always	Add New
Domain 06:	Always	Add New
Domain 07:	Always	Add New
Domain 08:	Always	Add New
Domain 09:	Always	Add New
Domain 10:	Always	Add New

## 6.4.5 Schedule

Select a time range in which the specified clients can access the Internet by **Day** and **Time**.

The screenshot displays the AirLink 101 web interface. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions (selected), Application & Gaming, Administration, and Status. Below this, a sub-menu shows IP Filters, MAC Filters, URL Blocking, Domain Blocking, and Schedule (selected). The main content area is titled 'Schedule' and contains the following fields:

- Schedule:** A dropdown menu showing '1 (---)' and buttons for 'Delete This Schedule' and 'Summary'.
- Name:** A text input field.
- Day(s):** Radio buttons for 'All Week' and 'Select Day(s)'. Below are checkboxes for Sun, Mon, Tue, Wed, Thu, Fri, and Sat.
- All Day - 24 hrs:** A checkbox.
- Start Time:** Two input fields for hour and minute, followed by a dropdown for AM/PM. A note indicates '(hour:minute, 12 hour time)'.
- End Time:** Two input fields for hour and minute, followed by a dropdown for AM/PM. A note indicates '(hour:minute, 12 hour time)'.
- Buttons:** 'Apply' and 'Cancel' buttons at the bottom.

## 6.5 Applications & Gaming

### 6.5.1 Port Range Forwarding

If you want to host a FTP server or online gaming, you must open up ports on the router. This page allows you to setup port forwarding for the specified applications.

Before using forwarding, you should assign static IP addresses to the designated PCs.

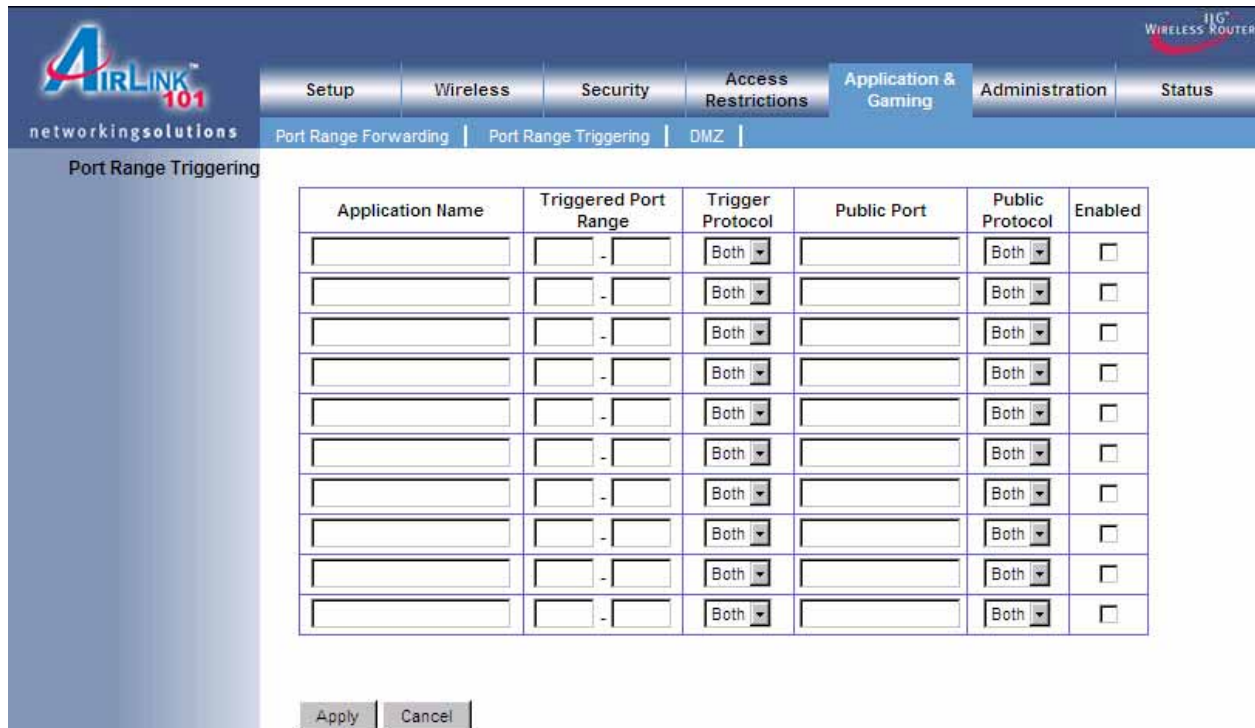
The screenshot displays the 'Port Range Forwarding' configuration page of an AIRLINK 101 wireless router. The page has a navigation bar with tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming (selected), Administration, and Status. Below the navigation bar, there are sub-tabs for Port Range Forwarding, Port Range Triggering, and DMZ. The main content area is titled 'Port Range Forwarding' and includes a section for 'Application Name' with five dropdown menus, all set to 'None'. Below this is a table for configuring port forwarding rules. The table has five columns: 'Start ~ End Port', 'Protocol', 'To IP Address', 'Enabled', and 'Schedule'. There are 15 rows in the table, each with a 'Start ~ End Port' field, a 'Both' protocol dropdown, a 'To IP Address' field (all set to 192.168.1.), an 'Enabled' checkbox (all unchecked), and a 'Schedule' dropdown (all set to 'Always'). At the bottom of the page, there are 'Apply' and 'Cancel' buttons.

Start ~ End Port	Protocol	To IP Address	Enabled	Schedule
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always
<input type="text"/> ~ <input type="text"/>	Both	192.168.1. <input type="text"/>	<input type="checkbox"/>	Always

Click **Apply** and **OK** to save the settings.

## 6.5.2 Port Range Triggering

Port triggering allows the router to keep track of outgoing data for specific port numbers. The router remembers which computer sends out what data, so when the requested data returns through the router, the data is sent back to the proper computer by way of IP address and port mapping rules.



networkingsolutions AIRLINK 101 WIRELESS ROUTER

Setup Wireless Security Access Restrictions Application & Gaming Administration Status

Port Range Forwarding Port Range Triggering DMZ

Port Range Triggering

Application Name	Triggered Port Range	Trigger Protocol	Public Port	Public Protocol	Enabled
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>
	-	Both		Both	<input type="checkbox"/>

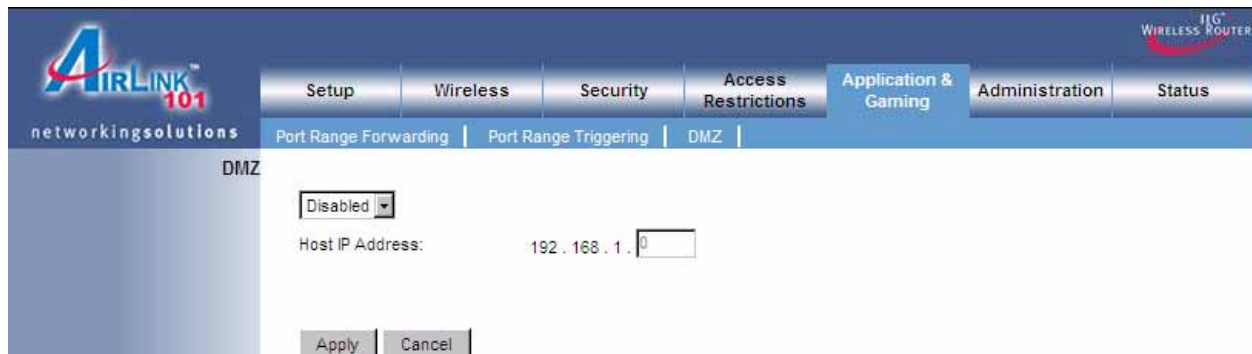
Apply Cancel

Click **Apply** and **OK** to save the settings.

### 6.5.3 DMZ

DMZ (De-Militarized Zone) Host is a host without the protection of the router's firewall. It allows a computer to be exposed to unrestricted two-way communication with the Internet. You should only use this feature when the Port Forwarding function fails to make an application work.

**Warning:** Setting your computer as a DMZ host exposes it to various security vulnerabilities. This feature should be used only when needed.



The screenshot displays the DMZ configuration interface of an AIRLINK 101 router. The interface includes a top navigation bar with tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming (selected), Administration, and Status. Below the navigation bar, the 'DMZ' sub-tab is active. The main content area shows a 'DMZ' status dropdown menu set to 'Disabled'. Below this, the 'Host IP Address' field is labeled and contains the value '192.168.1.0'. At the bottom of the form, there are 'Apply' and 'Cancel' buttons.

**DMZ:** Select to enable or disable DMZ.

**Host IP Address:** Specify the host IP address.

**Note:** Any DMZ host should have a new static IP address assigned to it because its IP address may change when using the DHCP function.

Click **Apply** and **OK** to save the settings.

## 6.6 Administration

### 6.6.1 Management

The Management screen allows you to change the router's login password as well as other administrative settings.

The screenshot shows the AirLink 101 router's Management screen. The navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration (selected), and Status. The Management section is active, displaying the following settings:

- Router Password:** Two input fields for password and confirmation, both showing five dots.
- Remote Router Access:**
  - Remote Management:** A dropdown menu set to "Disabled".
  - IP Address:** An input field set to "\*", with a note "( \* means any IP Address.)".
  - Port:** A dropdown menu set to "8080".
- UPnP:** A dropdown menu set to "Enabled".

At the bottom, there are buttons for Backup, File Path (with a Browse... button), Restore, Apply, and Cancel.

**Router Password:** Set the router's login password.

**Remote Router Access:** Select to enable or disable remote management/upgrade of the router. You can allow remote management from any IP Address or a specified IP Address as well as the port number.

**UPnP:** Universal Plug and Play (UPnP) allows Windows Me and XP to automatically configure the router for various Internet applications, such as gaming and videoconferencing.

**Backup and Restore:** You can choose to backup the router's settings so that you don't have to manually configure the settings again if you reset the router to factory default.



## 6.6.2 Log

You can choose to enable or disable logging of your network activity on this screen.

The screenshot shows the 'Log' configuration page in the Airlink 101 web interface. The page has a blue header with the 'Airlink 101' logo and 'networkingsolutions' text. A navigation bar at the top includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration (selected), and Status. Below the navigation bar, a sub-menu shows Management, Log (selected), Diagnostics, Factory Defaults, Firmware Upgrade, and Restart. The main content area is titled 'Log' and contains the following fields and controls:

- SMTP Server / IP Address:** A text input field.
- Email Address:** A text input field with a 'Send Mail Now' button to its right.
- Save Log File To Local Hard Drive:** A checkbox with a 'Save' button next to it.
- Log Type:** A list of checkboxes:
  - ☒ System Activity
  - ☐ Debug Information
  - ☒ Attacks
  - ☐ Dropped Packets
  - ☒ Notice
- View Log:** A button located below the Log Type section.
- Apply** and **Cancel** buttons at the bottom of the form.

**Email Address:** Specify an email address to send the log file.

**Send Mail Now:** Send the log file to the specified the email address.

**Save Log File to Local Hard Drive:** Take the log in router memory and store it into a log file.

**Log Type:** Specify the information you want to capture. They include System Activity, Debug Information, Attacks, Dropped Packets, and Notice.

**View Log:** Allow you to see logged information related to System Activity, Debug Information, Attacks, Dropped Packets, and Notice.

Click **Apply** and **OK** to save the settings.

### 6.6.3 Diagnostics

The Diagnostics screen allows you to perform **Ping** tests.



**Ping Test:** Enter the IP or URL Address you wish to ping and click **Ping**.

### 6.6.4 Factory Defaults

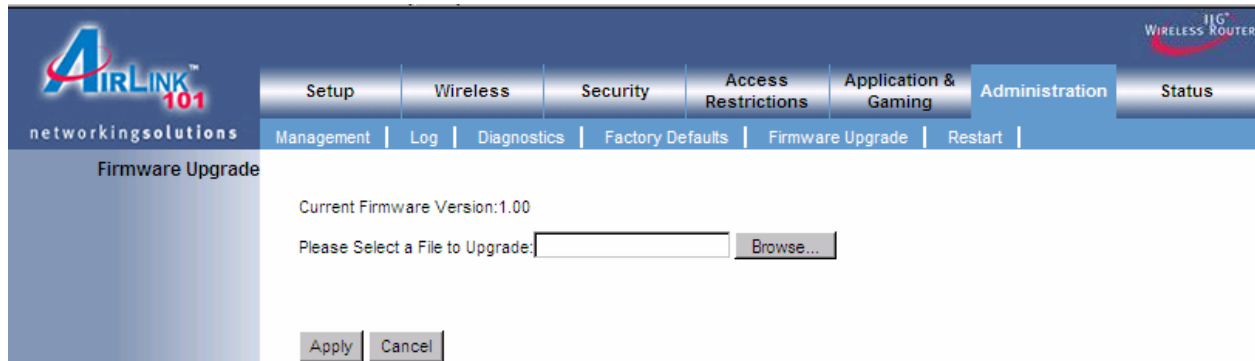
The Factory Defaults screen allows you to set all the router's settings to the factory default.



Click on the **Factory Defaults** button to restore all the settings to default.

## 6.6.5 Firmware Upgrade

The Firmware Upgrade screen allows you to upgrade the router's firmware.



You may download the updated firmware from the Airlink101 website [www.airlink101.com](http://www.airlink101.com)

Click on **Browse** to browse to the new firmware, and click **Apply**.

**Note:** Do not power off the router during the firmware upgrading, otherwise your router may be damaged permanently. Do not upgrade firmware from a wireless computer.

### 6.6.6 Restart

The Restart page allows you to restart the router without restoring the settings to factory default.



Click on the **Restart** button to restart the router.

## 6.7 Status

### 6.7.1 Router

The Router screen displays the router status information including the firmware version.

The screenshot shows the web interface of an AIRLINK 101 router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The 'Status' tab is active, and the 'Router' sub-tab is selected. The main content area is divided into two sections: 'Router Information' and 'Internet Connection'. The 'Router Information' section displays the following data:

Field	Value
Firmware Version:	1.00
Current Time:	00:23:51 01/01/2000
Internet MAC Address:	00:18:02:13:4e:a5
Host Name:	ar335w

The 'Internet Connection' section displays the following data:

Field	Value
Connection Type:	Dynamic IP
Connection Status:	connecting
IP Address:	0.0.0.0
Subnet Mask:	0.0.0.0
Default Gateway:	0.0.0.0
DNS1:	0.0.0.0
DNS2:	0.0.0.0

At the bottom of the 'Internet Connection' section, there are two buttons: 'Disconnect' and 'Refresh'.

Click on the **Refresh** button to reload the screen.

## 6.7.2 Local Network

The Local Network screen displays the local area network status information.



Click on the **DHCP Client Table** to display a list of DHCP clients in your network.

### 6.7.3 Wireless Network

The Wireless Network screen displays the wireless network status information.





## 7. Troubleshooting

If you have trouble connecting to the Internet, try the following steps.

**Step 1** Power off the Cable/DSL modem, router, and computer and wait for **5 minutes**.

**Step 2** Turn on the Cable/DSL modem and wait for the lights on the modem to settle down.

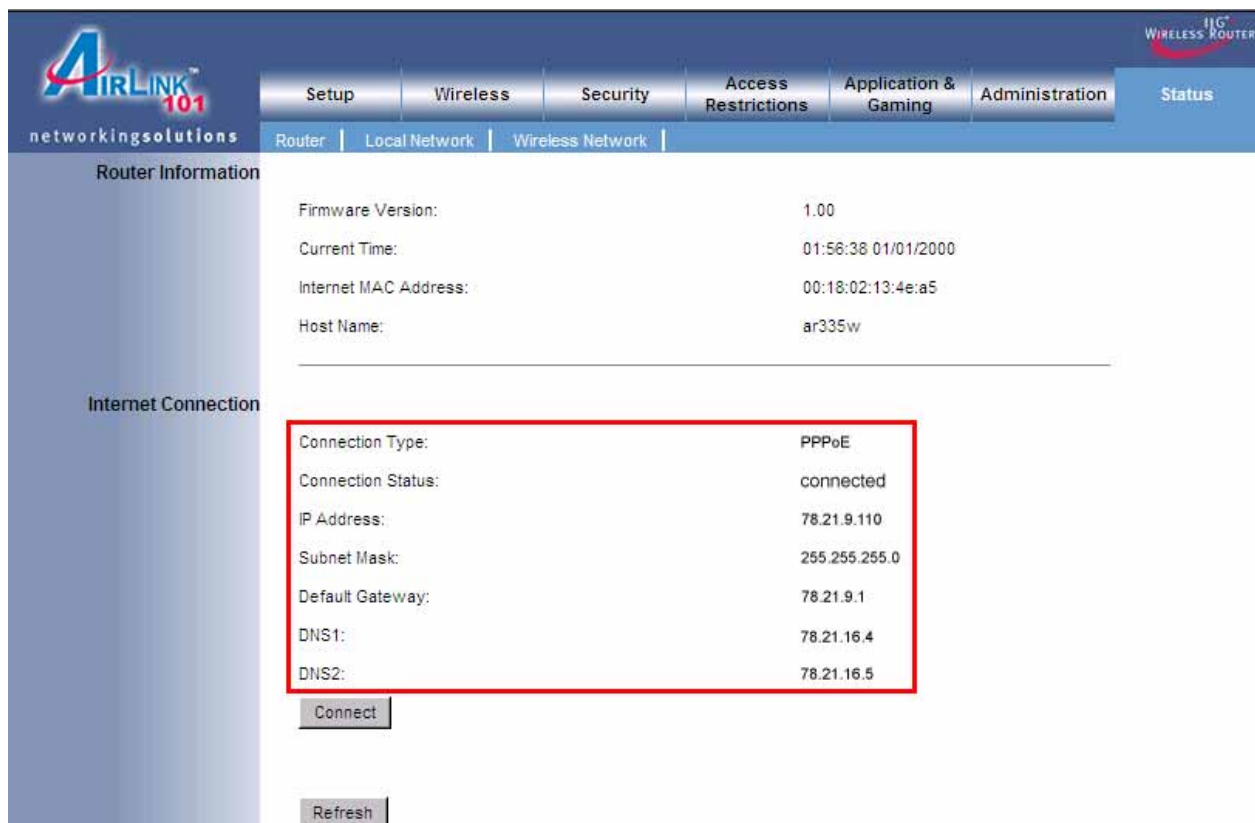
**Step 3** Turn on the router and wait for the lights on the router to settle down.

**Step 4** Turn on the computer.

**Step 5** Reconfigure the router as described in **Section 3**.

**Step 6** Log in to the router and select the **Status** tab.

**Step 7** Verify that the **IP Address**, **Default Gateway**, and at least one of the **DNS** fields have valid numbers assigned to them (instead of all 0's).



The screenshot shows the web interface of an AIRLINK 101 router. The top navigation bar includes tabs for Setup, Wireless, Security, Access Restrictions, Application & Gaming, Administration, and Status. The Status tab is selected, and the 'Wireless Network' sub-tab is active. The 'Router Information' section displays the following details:

Firmware Version:	1.00
Current Time:	01:56:38 01/01/2000
Internet MAC Address:	00:18:02:13:4e:a5
Host Name:	ar335w

The 'Internet Connection' section shows the following details, which are highlighted with a red box:

Connection Type:	PPPoE
Connection Status:	connected
IP Address:	78.21.9.110
Subnet Mask:	255.255.255.0
Default Gateway:	78.21.9.1
DNS1:	78.21.16.4
DNS2:	78.21.16.5

Below the connection details, there are 'Connect' and 'Refresh' buttons.

If each field has a valid number assigned, the router is connected to the Internet.

## **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### **IMPORTANT NOTE:**

#### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## **Industry Canada Statement**

This device complies with **RSS-210** of the Industry Canada Rules. Operation is subject to the following two conditions:

- 1) this device may not cause interference and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device

This device has been designed to operate with an antenna having a maximum gain of **2dBi**.

Antenna having a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the EIRP is not more than required for successful communication.

### **IMPORTANT NOTE:**

#### **IC Radiation Exposure Statement:**

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

## Technical Support

E-mail: [support@airlink101.com](mailto:support@airlink101.com)

Toll Free: 1-888-746-3238

Web Site: [www.airlink101.com](http://www.airlink101.com)

\*Theoretical maximum wireless signal rate based on IEEE standard 802.11g specifications. Actual data throughput will vary. Network conditions and environmental factors, including volume of network traffic, building materials and construction, mix of wireless products used, radio frequency interference (e.g., cordless telephones and microwaves) as well as network overhead lower actual data throughput rate.

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